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October 4, 1988

SDMS Document



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Ms. Janet Feldstein
U.S. Environmental Protection Agency
26 Federal Plaza
New York, New York 10278

Re: Feasibility Study
SCP Site
Carlstadt, New Jersey

Dear Ms. Feldstein:

Listed below are issues which must be resolved prior to completing the Feasibility Study, along with associated discussions:

1. Off-site water quality in the water table and till aquifers, and off-site ground water flow directions in the water table aquifer (POP Revision No. 8).

Discussion:

- a) It is important to know the water table aquifer quality and flow directions off-site to provide information on the extent of any off-site problem in this aquifer, and the type of shallow ground water controls considered in the Feasibility Study.
 - b) The off-site water quality in the till aquifer will influence any on-site ground water controls developed in the Feasibility Study for this aquifer. It may be that chemicals have not migrated far off-site in this aquifer because of the tight nature of the till soil. If this is the case, then the interrelation of the till and bedrock may yield information on how to best remediate water in the till (see below).
2. Water quality and flow direction in the bedrock aquifer, and hydraulics of the till aquifer/bedrock aquifer (POP Revision No. 9).

Discussion:

- a) The bedrock aquifer quality is an integral element to the evaluation of remedies in the Feasibility Study. If chemicals detected in the bedrock aquifer are related to the SCP site, a remedy should be developed for this aquifer if ARARs are exceeded. The bedrock aquifer is the only potential ground water pathway identified in the RI.

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- b) If there is a direct hydraulic connection between the bedrock and till aquifers, ground water controls in the bedrock aquifer may be sufficient to address remediation of the till aquifer (particularly if chemicals have not migrated off-site in the till aquifer). This certainly impacts the remedies which will be evaluated in the Feasibility Study.
 - c) If there is a direct hydraulic connection between the bedrock and till aquifers, additional wells may be necessary on-site and/or off-site to locate this interconnection.
3. Permeability of the till aquifer (POP Revision No. 8).

Discussion:

- a) This information is necessary to evaluate any ground water control measures which may be considered for the till aquifer.
4. The degree of hydraulic connection (if any) between the water table aquifer and Peach Island Creek.

Discussion:

- a) This must be evaluated so that appropriate ground water control measures for the water table aquifer can be evaluated in the Feasibility Study.
5. Treatability studies (POP Revision No. 10, under preparation).

Discussion:

- a) This is an important element in the evaluation of source control remedies in the Feasibility Study. We have developed preliminary plans for evaluating two soil treatment technologies (immobilization and solvent flushing). In light of the EPA's comments on the first chapters of the Feasibility Study, additional testing is being considered at present, which may involve treatability studies of other soil treatment technologies and ground water treatment technologies.



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Pursuant to my October 3, 1988 telephone discussion with Mr. Jim Schmidtberger of your staff, the schedules will be submitted with the detailed plans.

Please call if you have any questions.

Very truly yours,

DAMES & MOORE

Gerard M. Coscia, P.E.
Project Manager

GMC/jhm

cc: J. Koczan

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